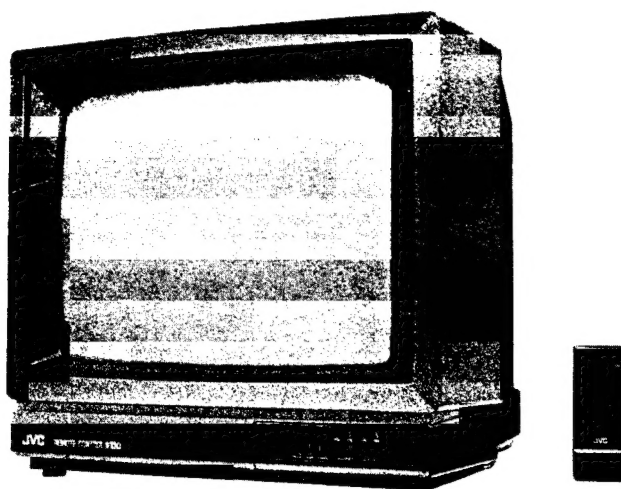


JVC

SERVICE MANUAL

14" (34CM) COLOR TV

MODEL C-140EKY



■ SAFETY PRECAUTION

As for SAFETY PRECAUTION including electric shock prevention, use of designated components, or safety inspection after servicing, refer to the appended PAL/SECAM Adjustment.

CONTENTS

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* With SCHEMATIC DIAGRAM	

■ CHASSIS & CABINET PARTS LIST

VIEW NO.	SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
1		CM11032-00W	FRONT CABI. ASS'Y	(Silver)	*
1		CM11032-00X	FRONT CABI. ASS'Y	(Black)	*
1		CM11032-00Y	FRONT CABI. ASS'Y	(White)	*
1		CM11032-00Z	FRONT CABI. ASS'Y	(Red)	*
2		CM21143-001-E	DOOR	(Silver) Within Front Cabinet Ass'y	*
2		CM21143-002-E	DOOR	(Black)	*
2		CM21143-003-E	DOOR	(White)	*
2		CM21143-003-E	DOOR	(Red)	*
3		CM31977-C04	CONTROL SHEET	"	*
4		CM43626-004-E	POWER KNOB	"	*
5		CM30861-034-E	SPRING	"	*
6		CM31894-C03	INDICATOR WINDOW	"	*
7	V01	370LHB22TC15J2	PICTURE TUBE/ITC	Include deflection Yoke,	*
8		A48457-2-E	SPRING	PC Magnet, Wedge Ass'y	*
9	SP01	CEBSB08P-01KJ1	SPEAKER		*
11	L01	CE41071-001	DEG COIL		*
12		CM32270-003-E	RATING LABEL		*
13	T1522	CE41225-00A	HV TRANSF		*
16		CM41678-003-E	PUSH KNOB	(x2)	*
17		CM41677-003-E	KNOB CAP		*
18		CM20952-B01-V0	POWER CORD CLAMP		*
19		CM10761-001-ME	REAR COVER		*
20		QMP5138-200J3	POWER CORD		*
21		CH30168-00B	BRAIDED ASSY		*
22	TU1001	KM7352ES-G01J2	UHF E TUNER		*
23		CM32460-00A-E	U LOOP ANT ASSY		*
24		SBX-F902A (E)	IF MODULE		*
25		SBX-M903A (E)	S SELECT MODULE		*
27	S1201	QSL4A13-C02	LEVER SWITCH	Service Switch	*
28	Q1551	2SD1426	SI TRANSISTOR	H. Out.	*
29	S1702	QST3221-C01	PUSH SWITCH	Preset, Skew	*
30	S1703	QSP4H11-C02	PUSH SWITCH	Power	*
31	S1705	QSP4H11-C02	PUSH SWITCH	Tuning△	*
32	S1706	QSP4H11-C02	PUSH SWITCH	Tuning▽	*
33	S1707	QSP4H11-C02	PUSH SWITCH	Memory	*
34	S1708	QSP4H11-C02	PUSH SWITCH	CH△	*
35	S1709	QSP4H11-C02	PUSH SWITCH	CH▽	*
36	S1710	QSP4H11-C02	PUSH SWITCH	Vol△	*
37	S1711	QSP4H11-C02	PUSH SWITCH	Vol▽	*
38	D1701	SLB-22VR5F	LED	Power ind.	*
39	D1702	SLR-54DU5	LED	Off Timer ind.	*
40	D1703	SLR-54MG5	LED	On Timer ind.	*
41	S1901	QSP4D21-C06	PUSH SWITCH	Main Power	*
42	F1901	QMF51E2-3R15J2	FUSE	3.15A	*
43		GBSA4016N	TAP SCREW	(x6)	*

PC BOARD PARTS LIST SBX-1901A(U) (MAIN PB ASS'Y)

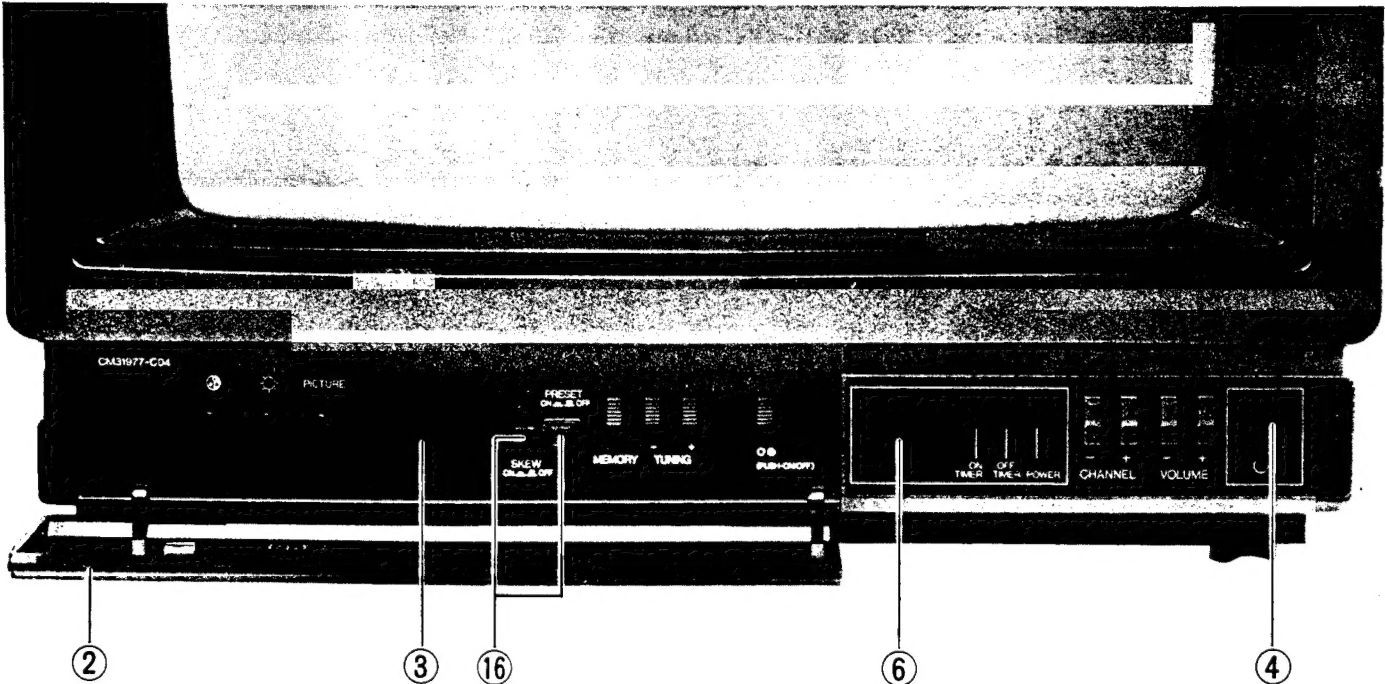
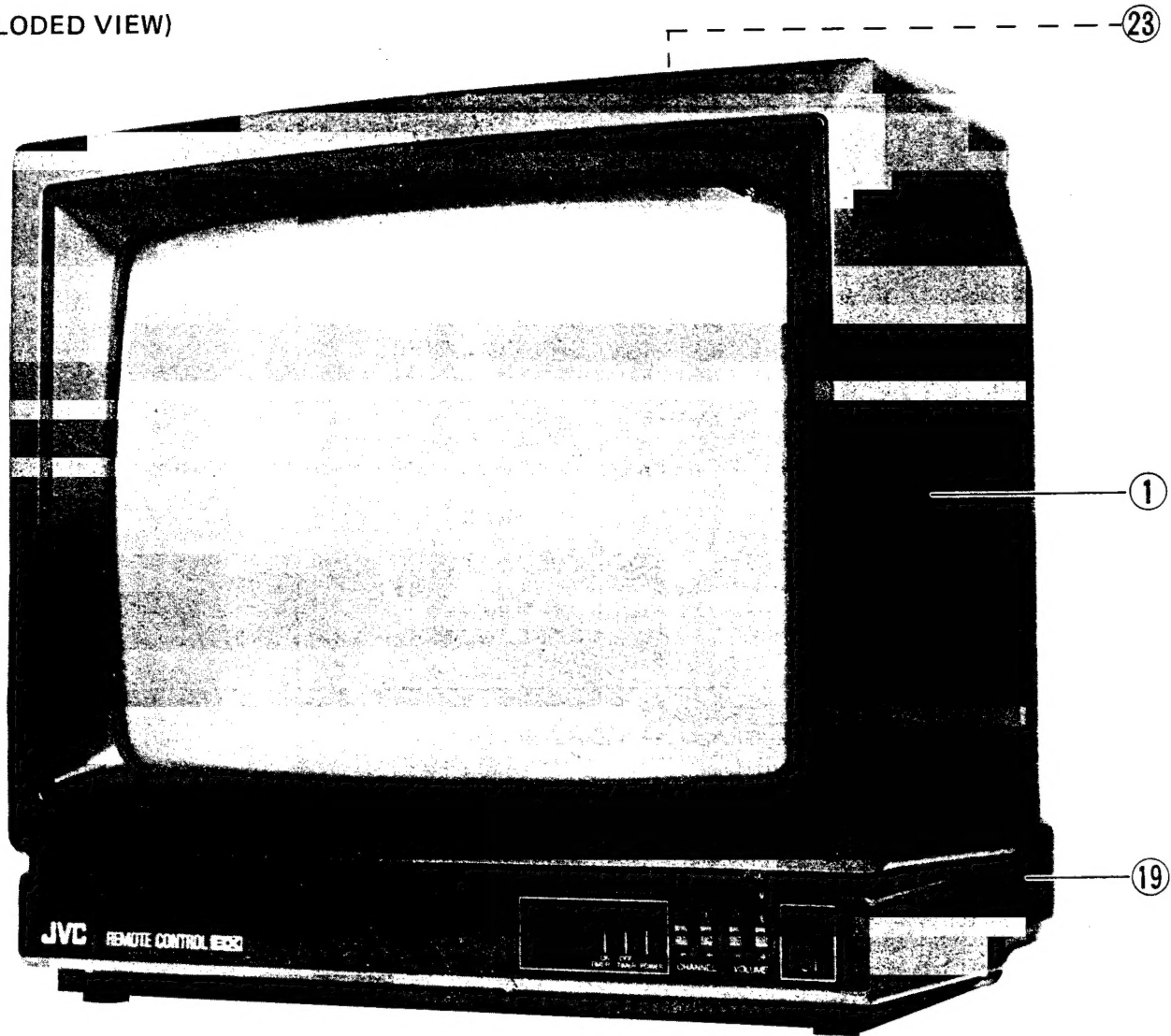
SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR			
R1104	QVPA601-223A	V R (NOISE)	22kΩ B
R1221	QVPA603-333A	V R (SUB CONT)	33kΩ B
R1222	QVAA009-CB14A	V R (PICTURE)	10kΩ B
R1227	QVPA603-103A	V R (SUB BRIGHT)	10kΩ B
R1230	QVAA010-CB14A	V R (BRIGHT)	10kΩ B
R1339	QVPA601-102A	V R (DL AMP)	1kΩ B
R1361	QVAA009-CB14A	V R (COLOR)	10kΩ B
R1403	QVPA803-201M	V R (V. HEIGHT)	200 Ω B
R1912	QVPA804-503M	V R (BI ADJ.)	50kΩ B
RESISTOR			
R1235	QRC019J-150S	OM R	15 Ω
R1519	QRC019J-151S	OM R	150 Ω
R1521	QRD161J-183Y	C R	18kΩ
R1522	QRD161J-683Y	C R	68kΩ
R1524	QRC019J-151S	OM R	150 Ω
R1531	QRC019J-101S	OM R	100 Ω
R1532	QRD161J-223Y	C R	22kΩ
R1533	QRD143J-6R8SX	C R	6.8 Ω
R1534	QRD161J-683Y	C R	68kΩ
R1551	QRC019J-471S	OM R	470 Ω
R1552	QRX029J-1R8	MF R	1.8 Ω
R1553	QRX029J-4R7A	MF R	4.7 Ω
R1554	QRX029J-6R8	MF R	6.8 Ω
R1560	QRX029J-121A	OM R	120 Ω
R1572	QRV142F-6341	MF R	6.34kΩ
R1573	QRV142F-3011	MF R	3.01kΩ
R1902	QRF153K-5R6	UNF R	5.6 Ω
R1903	QRC029J-823A	OM R	82kΩ
R1904	QRC029J-473A	OM R	47kΩ
R1907	QRC019J-221S	OM R	220 Ω
R1909	QRM055K-R33	MP R	0.33 Ω
R1914	QRX019J-4R7S	MF R	4.7 Ω
R1917	QRX029J-470A	OM R	47 Ω
R1920	QRC029J-100A	OM R	10 Ω
R1921	QRC029J-332A	OM R	3.3kΩ
R1922	QRC029J-333A	OM R	33kΩ
R1923	QRC029J-472A	OM R	4.7kΩ
R1925	QRC029J-820A	OM R	82 Ω
R1931	QRC019J-273S	OM R	27kΩ
R1940	QRC029J-333A	OM R	33kΩ
R1961	QRZ0057-825	C R	8.2MΩ
CAPACITOR			
C1001	QEM61EX-106M2	E CAP.	10μF
C1005	QEC01HM-224M2	E CAP.	0.22μF
C1308	QEN61HM-1052	BP E CAP.	1μF
C1309	QFV71HJ-104M2	TF CAP.	0.1μF
C1317	QEN61HM-474Z	BP E CAP.	0.47μF
C1322	QFV71HJ-393M2	TF CAP.	0.039μF
C1402	QEM61HK-225M2	E CAP.	2.2μF
C1412	QFV71HJ-563M2	TF CAP.	0.056μF
C1513	QETC0JM-4772	E CAP.	470μF
C1551	QFZ0081-5301S	MPP CAP	5300pF
C1557	QFV71HJ-104M2	TF CAP.	0.1μF
C1558	QFZ0083-354S	MPP CAP.	0.35μF
C1655	QFV81HM-184M	TF CAP.	0.18μF
C1659	QFV71HJ-393M2	TF CAP.	0.039μF
C1781	QEK01CM-336M2	E CAP.	33μF

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR			
C1782	QEK01CM-475GM2	E CAP.	4.7μF
C1783	QEK01CM-106GM2	E CAP.	10μF
C1784	QEK01CM-106GM2	E CAP.	10μF
C1785	QFV71HJ-333M2	TF CAP.	0.33μF
C1900	QC29041-102A	C CAP.	1000pF
C1901	QFZ9022-473M	MF CAP.	0.047μF
C1902	QFZ9022-473M	MF CAP.	0.047μF
C1905	QC29034-472A	C CAP.	4700pF
C1906	QC29034-472A	C CAP.	4700pF
C1907	QC29034-472A	C CAP.	4700pF
C1909	QE20084-327R	E CAP.	220μF
C1912	QC20122-391U	C CAP.	390 Ω
C1916	QFV71HJ-474M2	TF CAP.	0.47μF
C1919	QFV71HJ-474M2	TF CAP.	0.47μF
C1923	QC20122-471A	C CAP.	470pF
C1961	QC29041-102A	C CAP.	1000pF
C1962	QC29041-471A	C CAP.	470pF
C1972	QC20122-821U	C CAP.	8200pF
TRANSFORMER			
T1302A	CE40359	IDENT TRANSF	
T1303	CE40396-A01	DL P TRANSF	
T1552	CE40203-00A	DRIVE TRANSF.	
T1781	CE40304-001	BP TRANSF.	
T1901	CE41056-00B	SW. TRANSF.	
T1902	CE41059-00B	DRIVE TRANSF.	
COIL			
L1201	CE40041-150Z	PEAKING COIL	15μH
L1204	CE41281-680	PEAKING COIL	68μH
L1301	CELP006-8R2Z	PEAKING COIL	8.2μH
L1303	CELP006-8R2Z	PEAKING COIL	8.2μH
L1551	CE40954-00A	LIN COIL	
L1552	CELC001-270	CHOKE COIL	
L1555	CE40037-111	HVT CHOKE	
L1556	CE40037-111	HVT CHOKE	
DIODE			
D1203	W06A-Z	SI. DIODE	
D1204	ISS133-Y	SI. DIODE	
D1221	ISS133-Y	SI. DIODE	
D1222	ISS133-Y	SI. DIODE	
D1231	ISS133-Y	SI. DIODE	
D1232	ISS133-Y	SI. DIODE	
D1314	RD5.6ES(B3)-Y	ZENER DIODE	
D1318	ISS133-Y	SI. DIODE	
D1319	ISS133-Y	SI. DIODE	
D1321	RD5.6ES(B3)-Y	ZENER DIODE	
D1401	ISR35-100-Z	SI. DIODE	
D1501	ISS133-Y	SI. DIODE	
D1502	MA4056(M)-Y	ZENER DIODE	
D1504	ISS133-Y	SI. DIODE	
D1505	ISS133-Y	SI. DIODE	
D1507	MA4091(M)-Y	ZENER DIODE	
D1508	ISS133-Y	SI. DIODE	
D1510	MA4051(M)-Y	ZENER DIODE	
D1511	ISS133-Y	SI. DIODE	
D1551	DFA1A4-2	SI. DIODE	
D1552	DFA1A4-2	SI. DIODE	
D1553	RH-1S-Z	SI. DIODE	

SYMBOL NO.	PART NO.	PART NAME	REMARKS
DIODE			
D1571	1SR35-100-Z	SI. DIODE	
D1572	MA4058 (L) -Y	ZENER DIODE	
D1652	1SS133-Y	SI. DIODE	Power Ind.
D1701	SLR-22VR5F	L. E. D	Off Timer Ind.
D1702	SLR-54DV5F	L. E. D	
D1703	SLR-54MG5F	L. E. D (GRN)	On Timer Ind.
D1704	1SS133-Y	SI. DIODE	
D1724	1SS133-Y	SI. DIODE	
D1781	PD49PI	PHOTO DIODE	
D1801	1SS133-Y	SI. DIODE	
D1802	1SS133-Y	SI. DIODE	
D1803	1SS133-Y	SI. DIODE	
D1804	1SS133-Y	SI. DIODE	
D1805	1SS133-Y	SI. DIODE	
D1806	1SS133-Y	SI. DIODE	
D1901	LB-156-LF ₅	DIODE BRIDGE	
D1902	EU2A-Z	SI. DIODE	
D1903	RUIC-LFA1	SI. DIODE	
D1904	EU2A-Z	SI. DIODE	
D1905	W06-B-Z	SI. DIODE	
D1921	RU4B-LFK2	SI. DIODE	
D1922	EU2A-Z	SI. DIODE	
D1923	1SS133-Y	SI. DIODE	
D1924	EU2A-Z	SI. DIODE	
D1925	RD9, 1E (B)	ZENER DIODE	
D1926	DFA1A4-Z	SI. DIODE	
D1927	1SS133-Y	SI. DIODE	
D1928	1SS133-Y	SI. DIODE	
D1929	RD18E (B)	ZENER DIODE	
TRANSISTOR			
Q1201	2SA1015 (Y. GR) Y	SI. TRANSISTOR	
Q1205	2SA1015 (Y. GR) Y	SI. TRANSISTOR	
Q1206	2SC1815 (Y) -Y	SI. TRANSISTOR	
Q1207	2SC1815 (Y) -Y	SI. TRANSISTOR	
Q1208	2SA673 (C) -Y	TRANSISTOR	
Q1307	2SC1815 (BL) -Y	TRANSISTOR	
Q1502	2SC1627A-Y	SI TRANSISTOR	
Q1503	2SC1815 (Y. GR) Y	SI. TRANSISTOR	
Q1504	2SA1015 (Y. GR) Y	SI. TRANSISTOR	
Q1508	2SC1815 (Y. GR) Y	SI. TRANSISTOR	
Q1509	2SC1815 (Y. GR) Y	SI. TRANSISTOR	
Q1551	2SD1426	SI. TRANSISTOR	
Q1571	2SC1815 (Y. GR) Y	SI. TRANSISTOR	
Q1651	2SA1015 (Y. GR) Y	SI. TRANSISTOR	
Q1901	2SC2655 (Y) -Y	SI. TRANSISTOR	
Q1902	2SA966-Y	SI TRANSISTOR	
Q1921	2SA966-Y	SI TRANSISTOR	
Q1922	2SC1815 (Y. GR) Y	SI. TRANSISTOR	
Q1923	2SD1274V	SI. TRANSISTOR	
Q1924	2SA1013 (O)	SI. TRANSISTOR	
Q1925	2SC2229 (Y) -Y	SI. TRANSISTOR	
Q1926	2SA1015 (Y. GR) Y	SI. TRANSISTOR	
IC			
IC1201	M51308SP	I. C. (M)	
IC1401	AN5515	I. C. (M)	
IC1651	TA7222AP	I. C. (M)	
IC1721	AN78L05	I. C. (M)	
IC1781	UFC1373HA (MS)	I. C. (M)	

SYMBOL NO.	PART NO.	PART NAME	REMARKS
IC			
IC1901	STR54041S	I. C. (II)	
IC1921	UPC574J	I. C.	
OTHERS			
DL1201	SBX-F902A (E)	IF MODULE	
DL1301	SBX-M903A (E)	S SELECT MODULE	
F1901	CE41064-001	DELAY LINE	
	CE41305-001	IH DELAY LINE	
	QMF51E2-3R15S	FUSE	3. 15A
	CE40995-00A	LINE FILTER	
LP1901	QR20055-470M	F R	47 Ω 1/2W J
R1555	QRH017J-561M	F R	560 Ω 1W J
R1559	QRH017J-4R7M	F R	4.7 Ω 1W J
R1571	QR20054-100M	F R	10 Ω 1/4W J
R1908			
	QRH017J-101M	F R	100 Ω 1W J
R1934	QSP4H11-C02	LEVER SWITCH	Service SW
S1201	QSP4H11-C02	PUSH SWITCH	Preset, Skew, System
S1702	QSP4H11-C02	PUSH SWITCH	Power
S1703	QSP4H11-C02	PUSH SWITCH	Tuning Δ
S1705	QSP4H11-C02	PUSH SWITCH	Tuning ∇
S1706	QSP4H11-C02	PUSH SWITCH	Memory
S1707	QSP4H11-C02	PUSH SWITCH	ChA
S1708	QSP4H11-C02	PUSH SWITCH	ChV
S1709	QSP4H11-C02	PUSH SWITCH	Vo1A
S1710	QSP4H11-C02	PUSH SWITCH	Vo1V
S1711	QSP4H11-C02	PUSH SWITCH	Main Power SW
TH1901	A76038-T	POSISTOR	or A76038
TU1001	KM7351ES-B01	UHF E. TUNER	
X1302	CE41115-001	CRYSTAL	
X1501	CSB500F9	CERAMIC RESO	

(EXPLODED VIEW)



SBX-3901A(U) (CRT SOCKET PB ASS'Y)

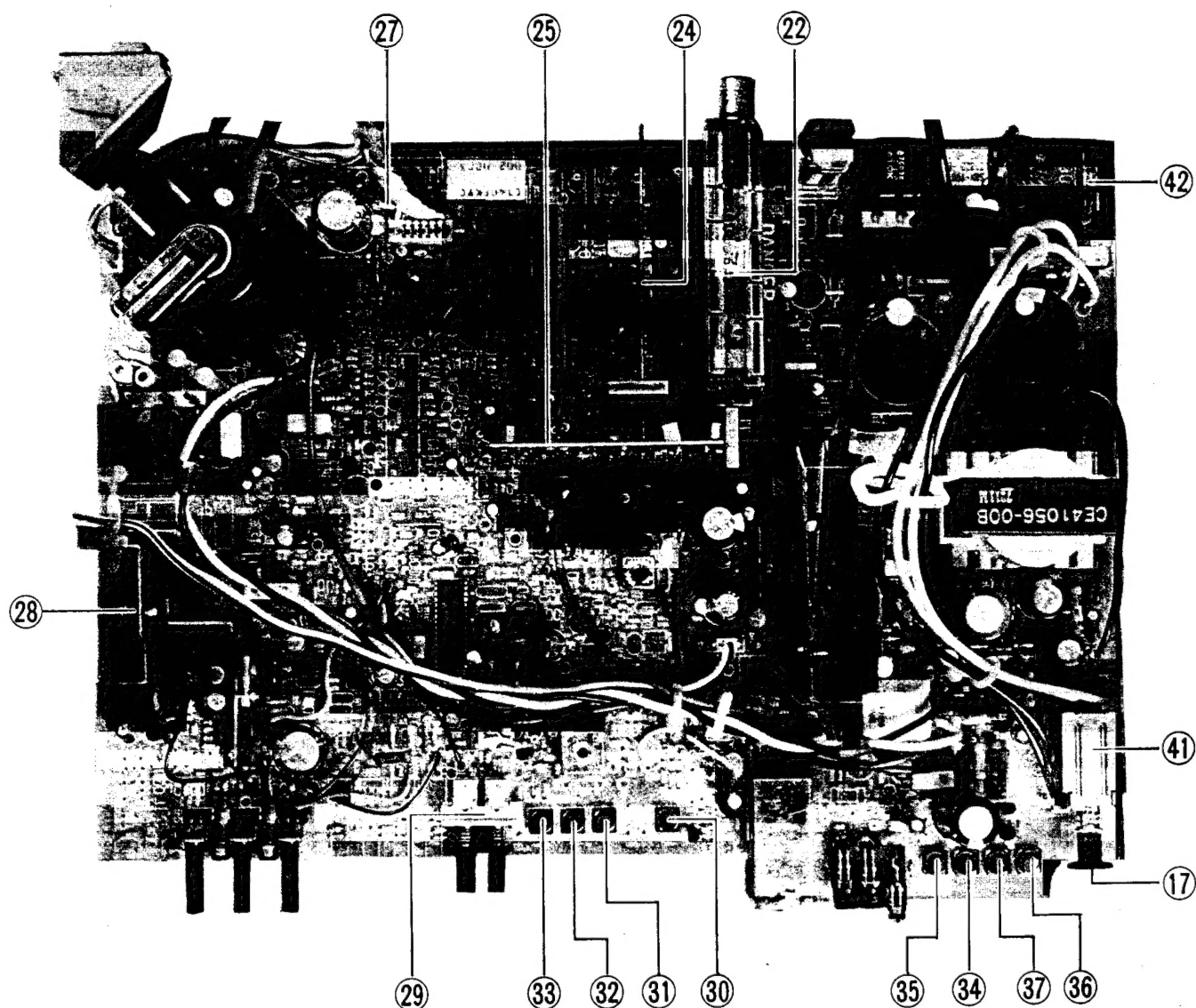
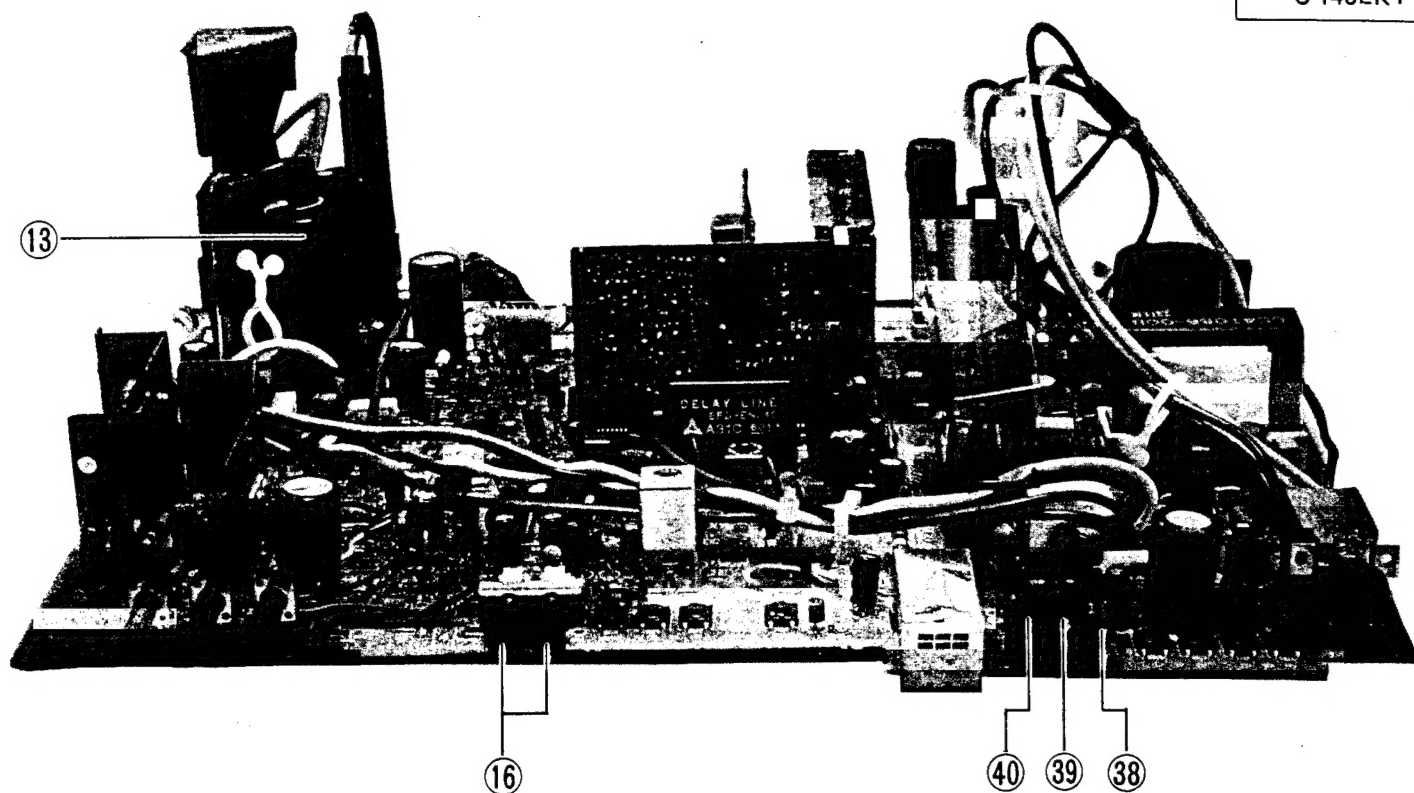
■ MODULE PRINTED CIRCUIT BOARD PARTS LIST

SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE RESISTOR			
R3009	QVPA803-502M	V R (B CUT OFF)	5kΩ B
R3015	QVPA803-502M	V R (R CUT OFF)	5kΩ B
R3017	QVPA803-502M	V R (G CUT OFF)	5kΩ B
R3021	QVPA803-201M	V R (R DRIVE)	200 Ω B
R3023	QVPA803-201M	V R (G DRIVE)	200 Ω B
RESISTOR			
R3024	QRG019J-153S	OM R	15kΩ 1W J
R3025	QRG019J-153S	OM R	15kΩ 1W J
R3026	QRG019J-153S	OM R	15kΩ 1W J
R3035	QRG023J-473A	OM R	47kΩ 2W J
CAPACITOR			
C3007	QCZ9016-103A	C CAP.	0.01μFAC400V P
COIL			
L3001	QQL043K-221	PEAKING COIL	220μH
TRANSISTOR			
Q3001	2SC2371 (K-M)	SI. TRANSISTOR	B. Out
Q3002	2SC2371 (K-M)	SI. TRANSISTOR	R. Out
Q3003	2SC1815 (Y) -Y	SI. TRANSISTOR	C. Out
Q3004	2SC2371 (K-M)	SI. TRANSISTOR	
Q3005	2SC1815 (Y) -Y	SI. TRANSISTOR	
OTHERS			
	CE40228-00E	CRT SOCKET	

- The following module PC boards are supplied as assemblies. The component parts on the module PC boards are available only when the parts are listed in the "Module Printed Circuit Board Parts List".

SBX-F902A(E) (IF MODULE)

SBX-M903A(E) (STATION SELECT MODULE)



■ PC BOARD PARTS LIST
SBX-1901A-EY (MAIN PB ASS'Y)

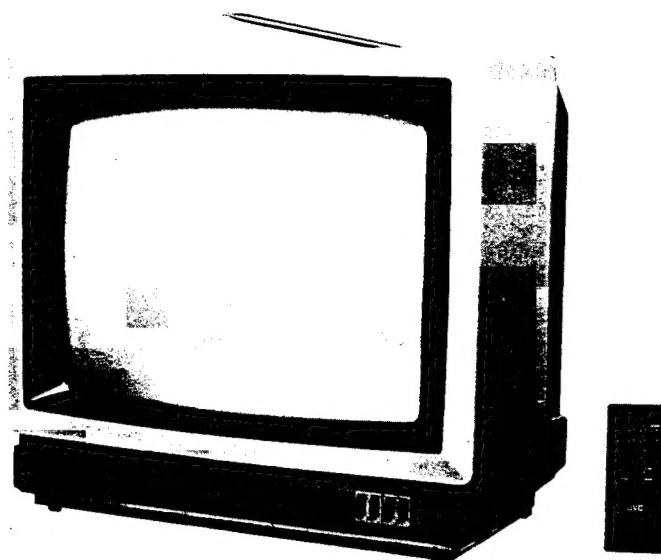
SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
VARIABLE RESISTOR				
R1104	CEX40358-223	VR (NOISE)	22kΩ B	*
R1221	CEX40330-333	VR (SUB CONT)	33kΩ B	*
R1222	QVAA009-CB14A	VR (PICTURE)	10kΩ B	*
R1227	CEX40330-103	VR (SUB BRIGHT)	10kΩ B	*
R1230	QVAA010-CB14A	VR (BRIGHT)	10kΩ B	*
R1339	CEX40358-102	VR (DL AMP)	1kΩ B	*
R1361	QVAA009-CB14A	VR (COLOR)	10kΩ B	*
R1403	CEX40202-022	VR (V. HEIGHT)	200 Ω B	*
R1912	CEX40268-054	VR (B1 ADJ.)	50kΩ B	*
RESISTOR				
R1235	QRG019J-150S	OM R	15 Ω	J
R1519	QRG019J-151S	OM R	150 Ω	J
R1521	QRD161J-183YJ2	C R	18kΩ	J
R1522	QRD161J-683YJ2	C R	68kΩ	J
R1524	QRG019J-151S	OM R	150 Ω	J
R1531	QRG019J-101S	OM R	100 Ω	J
R1532	QRD161J-223YJ2	C R	22kΩ	J
R1533	QRD143J-6R8SX	C R	6.8 Ω	J
R1534	QRD161J-683YJ2	C R	68kΩ	J
R1551	QRG019J-471S	OM R	470 Ω	J
R1552	QRX029J-1R8A	MF R	1.8 Ω	J
R1553	QRX029J-4R7A	MF R	4.7 Ω	J
R1554	QRX029J-6R8A	MF R	6.8 Ω	J
R1560	QRG029J-121A	OM R	120 Ω	J
R1572	QRV142F-6341	MF R	6.3kΩ	F
R1573	QRV142F-3011	MF R	3.0kΩ	F
R1902	QRF153K-5R6	UNF R	5.6 Ω	K
R1903	QRG029J-823A	OM R	82kΩ	J
R1904	QRG029J-473A	OM R	47kΩ	J
R1907	QRG019J-221S	OM R	220 Ω	J
R1909	QRM055K-R33	MP R	0.33 Ω	K
R1914	QRX019J-4R7S	MF R	4.7 Ω	J
R1917	QRG029J-470A	OM R	47 Ω	J
R1920	QRG029J-100A	OM R	10 Ω	J
R1921	QRG029J-332A	OM R	3.3kΩ	J
R1922	QRG029J-333A	OM R	33kΩ	J
R1923	QRG029J-472A	OM R	4.7kΩ	J
R1925	QRG029J-820A	OM R	82 Ω	J
R1931	QRG019J-273S	OM R	27kΩ	J
R1940	QRG029J-333A	OM R	33kΩ	J
R1961	QRZ0057-825	C R	8.2MΩ	J
CAPACITOR				
C1001	QEM51EK-106M2	E CAP.	10μF	K
C1002	QETC1HM-1052J5	E CAP.	25V	M
C1005	QEC01HM-224M2	E CAP.	1μF	M
C1006	QETC1CM-1072J5	E CAP.	0.22μF	M
C1007	QETC1HM-3352J5	E CAP.	100μF	M
C1101	QETC1CM-4762J5	E CAP.	3.3μF	M
C1204	QETC1CM-1072J5	E CAP.	47μF	M
C1207	QETC1CM-1062J5	E CAP.	100μF	M
C1208	QETC1HM-4742J5	E CAP.	10μF	M
C1209	QETC1HM-1052J5	E CAP.	0.47μF	M
C1210	QETC1HM-1052J5	E CAP.	1μF	M
C1308	QEN51HM-105	BP E CAP.	1μF	M
C1309	QFV71HJ-104M2	TF CAP.	0.1μF	M
C1317	QEN51HM-474	BP E CAP.	0.47μF	M
C1322	QFV71HJ-333M2	TF CAP.	0.039μF	J

SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
CAPACITOR				
C1341	QETC1HM-4752J3	E CAP.	4.7μF	M
C1346	QETC1CM-107J5	E CAP.	47μF	M
C1347	QETB1CM-107J5	E CAP.	100μF	M
C1348	QETB1CM-108J5	E CAP.	1000μF	M
C1402	QEM51HK-225M	E CAP.	2.2μF	K
C1406	QETC1VM-1072J5	E CAP.	100μF	M
C1408	QETB1EM-108J5	E CAP.	1000μF	M
C1412	QFV71HJ-562M2	TF CAP.	0.056μF	J
C1503	QETC1HM-1052J5	E CAP.	1μF	M
C1509	QETC1HM-1052J5	E CAP.	1μF	M
C1510	QETB1VM-476J3	E CAP.	47μF	M
C1513	QETC0JM-4772J5	E CAP.	470μF	M
C1515	QETC1CM-2272J5	E CAP.	220μF	M
C1551	QFZ0081-5301S	MPP CAP.	5300PF	M
C1553	QETB1VM-228	E CAP.	2200PF	M
C1554	QETB1CM-108J5	E CAP.	1000μF	M
C1555	QETB1CM-228	E CAP.	2200μF	M
C1556	QETC1HM-2252J5	E CAP.	2.2μF	M
C1557	QFV71HJ-104M2	TF CAP.	0.1μF	J
C1558	QFZ0089-354S	MPP CAP.	0.35μF	K
C1571	QETC1EM-1072J3	E CAP.	100μF	M
C1572	QETC0JM-4772J5	E CAP.	470μF	M
C1651	QETC1HM-1052J5	E CAP.	1μF	M
C1653	QETB1HM-475J3	E CAP.	4.7μF	M
C1654	QETC1CM-1062J5	E CAP.	10μF	M
C1655	QFV81HJ-184M	TF CAP.	0.18μF	J
C1656	QETB1CM-477J5	E CAP.	470μF	M
C1658	QETC1CM-2272J5	E CAP.	220μF	M
C1659	QFV71HJ-393M2	TF CAP.	0.039μF	J
C1664	QETB1CM-107J5	E CAP.	100μF	M
C1721	QETC0JM-1072J5	E CAP.	100μF	M
C1722	QETC1HM-1052J5	E CAP.	1μF	M
C1724	QETC1CM-4762J5	E CAP.	47μF	M
C1725	QETC1CM-1062J5	E CAP.	10μF	M
C1726	QETC1CM-2272J5	E CAP.	220μF	M
C1727	QETC1HM-1052J5	E CAP.	1μF	M
C1728	QETB1HM-105J5	E CAP.	50V	M
C1781	QEK51CM-336M	E CAP.	33μF	M
C1782	QEK51EM-475GJ2	E CAP.	4.7μF	M
C1783	QEZ0120-1062J1	E CAP.	10μF	M
C1784	QEZ0120-1062J1	E CAP.	10μF	M
C1785	QFV71HJ-333M2	TF CAP.	0.033μF	J
C1900	QZ9041-102A	C CAP.	1000PFAC400V	M
C1901	QZ9022-473M	MF CAP.	0.047μFAC250V	M
C1902	QZ9022-473M	MF CAP.	0.047μFAC250V	M
C1905	QZ9034-472A	C CAP.	4700PFAC400V	P
C1906	QZ9034-472A	C CAP.	4700PFAC400V	P
C1907	QZ9034-472A	C CAP.	4700PFAC400V	P
C1909	QZ0084-227R	E CAP.	220μF	M
C1912	QZ0122-391A	C CAP.	390PF	K
C1913	QZC2AM-1062	E CAP.	10μF	M
C1914	QETC2AM-1062	E CAP.	10μF	M
C1816	QFV71HJ-474M2	TF CAP.	0.47μF	J
C1817	QETC1JM-3362J5	E CAP.	33μF	M
C1923	QZ0122-471A	C CAP.	470PF	K
C1925	QETC1VM-1072J5	E CAP.	100μF	M
C1927	QETB1EM-108J5	E CAP.	1000μF	M
C1928	QETB1EM-477J5	E CAP.	470μF	M

SYMBOL NO.	PART NO.	PART NAME	REMARKS	SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR				DIODE			
C1931	QETB1CM-477J5	E CAP.	470 μ F	D1802	ISS133-Y	SI. DIODE	
C1932	QETC1VM-3362J3	E CAP.	33 μ F	D1803	ISS133-Y	SI. DIODE	
C1933	QETC1HM-1052J5	E CAP.	1 μ F	D1804	ISS133-Y	SI. DIODE	
C1934	QETB2CM-107	E CAP.	100 μ F	D1805	ISS133-Y	SI. DIODE	
C1938	QETC1HM-3352J5	E CAP.	3.3 μ F	D1806	ISS133-Y	SI. DIODE	
C1961	QC29041-102A	C CAP.	1000PFAC400V	D1901	LB-156	DIODE BRIDGE	
C1962	QC29041-471A	C CAP.	470PFAC400V	D1902	EU2A-2	SI. DIODE	
C1972	QC20122-821A	C CAP.	820PF 2000V	D1903	RUIC-LFA1	SI. DIODE	
TRANSFORMER				D1904	EU2A-2	SI. DIODE	
T1302A	CE40359	IDENT TRANSF.		D1905	W06-B-Z	SI. DIODE	
T1303	CE40396-A01	DL P TRANSF.		D1921	RU4B-LFK2	SI. DIODE	
T1552	CE40203-00A	DRIVE TRANSF.		D1922	EU2A-2	SI. DIODE	
T1781	CE40304-001	BP TRANSF.		D1923	ISS133-Y	SI. DIODE	
T1901	CE41056-00B	SW. TRANSF.		D1924	EU2A-2	SI. DIODE	
T1902	CE41059-00B	DRIVE TRANSF.		D1925	RD9.1E (B)	ZENER DIODE	
COIL				D1926	DFA1A4-Z	SI. DIODE	
L1201	CE40041-150	PEAKING COIL	15 μ H	D1927	ISS133-Y	SI. DIODE	
L1204	CE41281-680	PEAKING COIL	68 μ H	D1928	ISS133-Y	SI. DIODE	
L1301	CE41065-8R22	PEAKING COIL	8.2 μ H	D1929	RD18E (B)	ZENER DIODE	
L1303	CE41065-8R22	PEAKING COIL	8.2 μ H	TRANSISTOR			
L1551	CE40954-00A	LIN COIL	8.2 μ H	Q1201	2SA1015 (Y, GR) L	SI. TRANSISTOR	
L1552	CELC001-270	HEATER CHOKE		Q1205	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
L1555	CE40037-111	HVT CHOKE		Q1206	2SC1815 (Y)	SI. TRANSISTOR	
L1556	CE40037-111	HVT CHOKE		Q1207	2SC1815 (Y) -Y	SI. TRANSISTOR	
DIODE				Q1208	2SA673 (C)	SI. TRANSISTOR	
D1203	W06A-Z	SI. DIODE		Q1307	2SC1815 (BL) -Y	TRANSISTOR	
D1204	ISS133-Y	SI. DIODE		Q1502	2SC1627A	SI. TRANSISTOR	
D1221	ISS133-Y	SI. DIODE		Q1503	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
D1222	ISS133-Y	SI. DIODE		Q1504	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
D1231	ISS133-Y	SI. DIODE		Q1508	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
D1232	ISS133-Y	SI. DIODE		Q1509	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
D1314	RD5.6ES (B3) -Y	ZENER DIODE		Q1551	2SD1426	SI. TRANSISTOR	
D1318	ISS133-Y	SI. DIODE		Q1571	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
D1319	ISS133-Y	SI. DIODE		Q1651	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
D1321	RD5.6ES (B3) -Y	ZENER DIODE		Q1901	2SC2655 (Y)	SI. TRANSISTOR	
D1401	ISR35-100-Z	SI. DIODE		Q1902	2SA986	SI. TRANSISTOR	
D1501	ISS133-Y	SI. DIODE		Q1921	2SA986	SI. TRANSISTOR	
D1502	MA4056 (M) -Y	ZENER DIODE		Q1922	2SC1815 (Y, GR) Y	SI. TRANSISTOR	
D1504	ISS133-Y	SI. DIODE		Q1923	2SD1274AV	SI. TRANSISTOR	
D1505	ISS133-Y	SI. DIODE		Q1924	2SA1013 (O)	SI. TRANSISTOR	
D1507	MA4091 (M) -Y	ZENER DIODE		Q1925	2SC2229 (Y)	SI. TRANSISTOR	
D1508	ISS133-Y	SI. DIODE		Q1926	2SA1015 (Y, GR) Y	SI. TRANSISTOR	
D1510	MA4051 (M) -Y	ZENER DIODE		IC			
D1511	ISS133-Y	SI. DIODE		IC1201	M51308SP	I. C.	
D1551	DFA1A4-Z	SI. DIODE		IC1401	AN5515	I. C.	
D1552	DFA1A4-Z	SI. DIODE		IC1551	TA7222AP	I. C.	
D1553	RH-1S-Z	SI. DIODE		IC1721	AN78L05	I. C.	
D1571	ISR35-100-Z	SI. DIODE		IC1781	UPC1373HA (MS)	I. C. (M)	
D1572	MA4068 (L) -Y	ZENER DIODE		IC1901	STR54041S	I. C.	
D1652	ISS133-Y	SI. DIODE		IC1921	UPC574J	I. C.	
D1701	SLB-22VR5F	L E D		OTHERS			
D1702	SLR-54DU5	L E D		DL1201	SBX-F902A (E)	IF MODULE	
D1703	SLR-54MG5	LED (GRN)		CE41064-001	SBX-M903A (E)	S SELECT MODULE	
D1704	ISS133-Y	SI. DIODE		DL1301	CE41064-001	DELAY LINE	
D1724	ISS133-Y	SI. DIODE		F1901	QMF31E2-3R15J2	1H DELAY LINE	
D1781	PD49PI	PHOTO DIODE		LF1901	CE40995-00A	FUSE	
D1801	ISS133-Y	SI. DIODE				LINE FILTER	
							3.15A

JVC**SUPPLEMENTARY****SERVICE MANUAL**

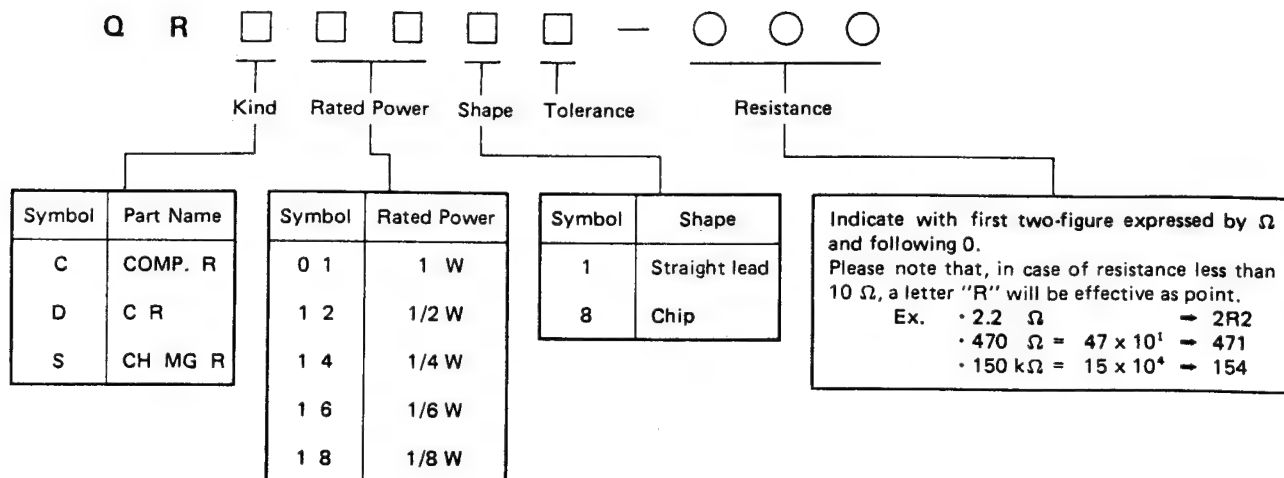
14"(34CM) COLOR TV

MODEL C-140EKY**■ INFORMATION**

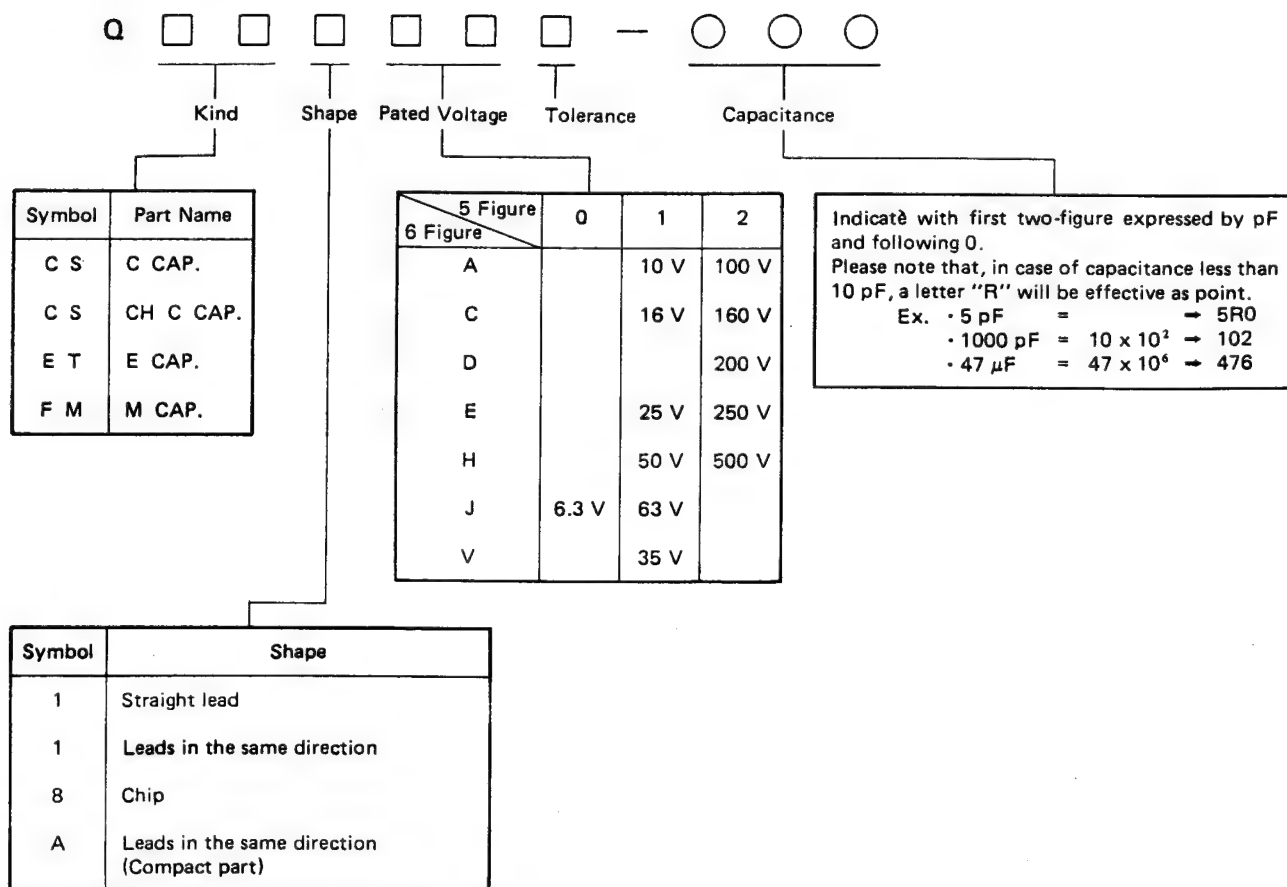
1. The local procurement method for Model C-140EKY has been altered, and the Parts List has been changed accordingly. For this reason, this Supplementary has been issued.
Therefore, please replace the Parts List already issued (Manual No. 5983) with the recently issued Parts List (Manual No. 5983C).
 2. In ordering repair parts, please confirm the Manual No. and the Parts List, so errors can be avoided.
 3. As for the "Service Adjustment" (Page 3) within the already issued Service Manual C-140EKY (No. 5983), refer to the Supplementary (Only Adjustment) (Manual No. 5840B) of the original Model C-140EK (No. 5840).
- * The Parts List is printed on Page 2 and the pages thereafter.

NOTE 2 HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR



■ CAPACITOR



JVC C-140EKY SCHEMATIC DIAGRAM

■ NOTICE

- Voltage values and waveforms are measured by respectively receiving and displaying on the screen the colour bars signals of the PAL.

[Voltage value display method]

The voltage values indicated within the circuits denote those obtained when PAL colour bar signals are received and displayed on the screen.

Multimeter used.

DC 20kΩ/V

Given figures are all DC voltages.

Sweep speed of oscilloscope

H → 20 μS/div. V → 5 mS/div.

Others → sweep speed specified

- Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

■ SAFETY

FR (FR) denotes a fusible resistor which operates as a fuse. When replacing fusible resistors and parts indicated with black shading (■) in the circuit diagrams, be sure to ensure safety by using designated parts.

As to other parts too, use designated parts to maintain safety and performance.

NOTE FOR SERVICE

This model's power supply circuit has different GND potentials. The different GND potentials are shown by the LIVE (primary: \perp) side GND and the NEUTRAL (secondary: ///) side GND.

Be sure never to short between the LIVE side GND and NEUTRAL side GND and never measure with a measuring apparatus (oscilloscope etc) the LIVE side GND and the NEUTRAL side GND at the same time.

If the above note is ignored, some component breakdown will result.

■ INDICATION OF PARTS SYMBOL

Inside board (Example) SBX-1901A-EY: R1209 → R209

Outside board (Example) R0001 → R01

■ SCHEMATIC DIAGRAM INDICATION

Resistor

- Resistance value
Without unit: [Ω] K: [kΩ] M: [MΩ]
- Rated allowable power
Without indication: 1/6W, Others Indicated
- Type
Without indication : Carbon resistor
OMR : Oxide metal film resistor
UNF R : Unflammable resistor
MF R : Metal film resistor
FR : Fusible resistor
- * Composition resistor 1/2 [W] is indicated as 1/2S or Comp.

Capacitor

- Capacitance
Above 1 [pF] : Below 1 [μF]
- Withstand voltage
Without indication : DC 50 [V]
Others : DC withstand voltage [V]
AC indicated : AC withstand voltage [V]
- Indications for electrolytic capacitors are as follows.
(Example)
47/50 → capacitance [μF] / withstand voltage [V]

○ Type

Without indication : Ceramic capacitor
MY : Mylar capacitor
MM : Metalized mylar capacitor
PP : Polypropylene capacitor
MPP : Metalized polypropylene capacitor
NP : Nonpolar electrolytic capacitor
BP : Bipolar electrolytic capacitor
TAN. : Tantalum capacitor

Coil

Without unit : [μH]

Connection method

□: Connector, →: Receptacle
○ ○: Wrapping or soldering

Power Supply

— : B₁ (115V), — : B₂ (12V)
— : 5 V

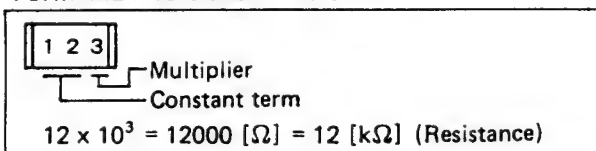
Test point & GND. symbol.

⊙ : Test point by miniature GT pin
○ : Only test point display
⊥ : Live (Primary) side ground
/// : Neutral (Secondary) side ground

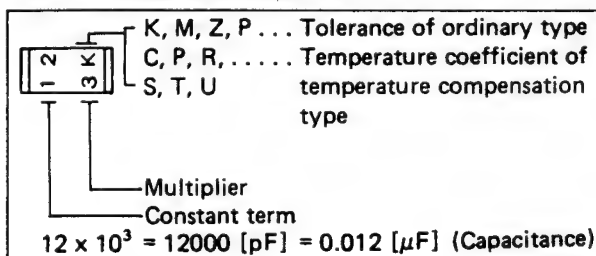
■ HOW TO READ CHIP COMPONENTS

(Chip parts are used each module.)

< CHIP METAL GLAZE RESISTOR >



< CHIP CERAMIC CAPACITOR >



< CHIP TRANSISTOR >

Part No.	Display method
2SC2778 (B, C)	<p>denotes 2SC2778 parts ranking: B</p>
2SA1022 (C)	<p>denotes 2SA1022 parts ranking: C</p>

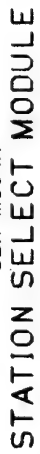
< CHIP DIODE >

Part No.	Display method
MA151WK	<p>denotes MA151 parts ranking: T</p>

■ PARTS LIST (Shaded Parts in the Schematic Diagram)

Symbol No.	Part No.	Part Name	Symbol No.	Part No.	Part Name
SBX-1901A-EY MAIN PCB ASS'Y					
R1521	QRD161J-183YJ2	C R	F 1901	QMF51E2-3R15J2	Fuse
1522	QRD161J-683YJ2	"	LF 1901	CE40995-00A	Line Filter
1532	QRD161J-223YJ2	"	S 1901	QSP4D21-C06	Power Switch
1533	QRD143J-6R8SX	"	TH 1901	A76038-T	W-PTC
1534	QRD161J-683YJ2	"			
1572	QRV142F-6341	MF R			
1573	QRV142F-3011	"			
1961	QRZ0057-825	C R	SBX-3901A-EY CRT SOCKET PCB ASS'Y		
C1513	QETC0JM-477ZJ5	E Cap		CE40228-00E	CRT Socket
1551	QFZ0081-5301S	MPP Cap			
1900	QCZ9041-102A	C Cap			
1901,2	QFZ9022-473M	MF Cap	OUTSIDE OF PCB ASS'Y		
1905,6	QCZ9034-472A	C Cap	V01	370LHB22TC15J2	Picture Tube/ITC
1961	QCZ9041-102A	"	L01	CE41071-001	Deg Coil
1962	QCZ9041-471A	"	T 1522	CE41225-00A	HV Transf
T1901	CE41056-00B	SW Transf		QMP5138-200J3	Power Cord
1902	CE41059-00B	Drive Transf			
D1507	MA4091(M)-Y	Zener Diode			
1508	1SS133-Y	Si Diode			
1572	MA4068(L)-Y	Zener Diode			
Q1508,9	2SC1815(Y,GR)Y	Si Transistor			
1551	2SD1426	"			
IC 1901	STR54041S	IC			
R1555	QRZ0055-470M	F R			
1559	QRH017J-561M	"			
1571	QRH017J-4R7M	"			
1908	QRZ0054-100M	"			
1934	QRH017J-101M	"			

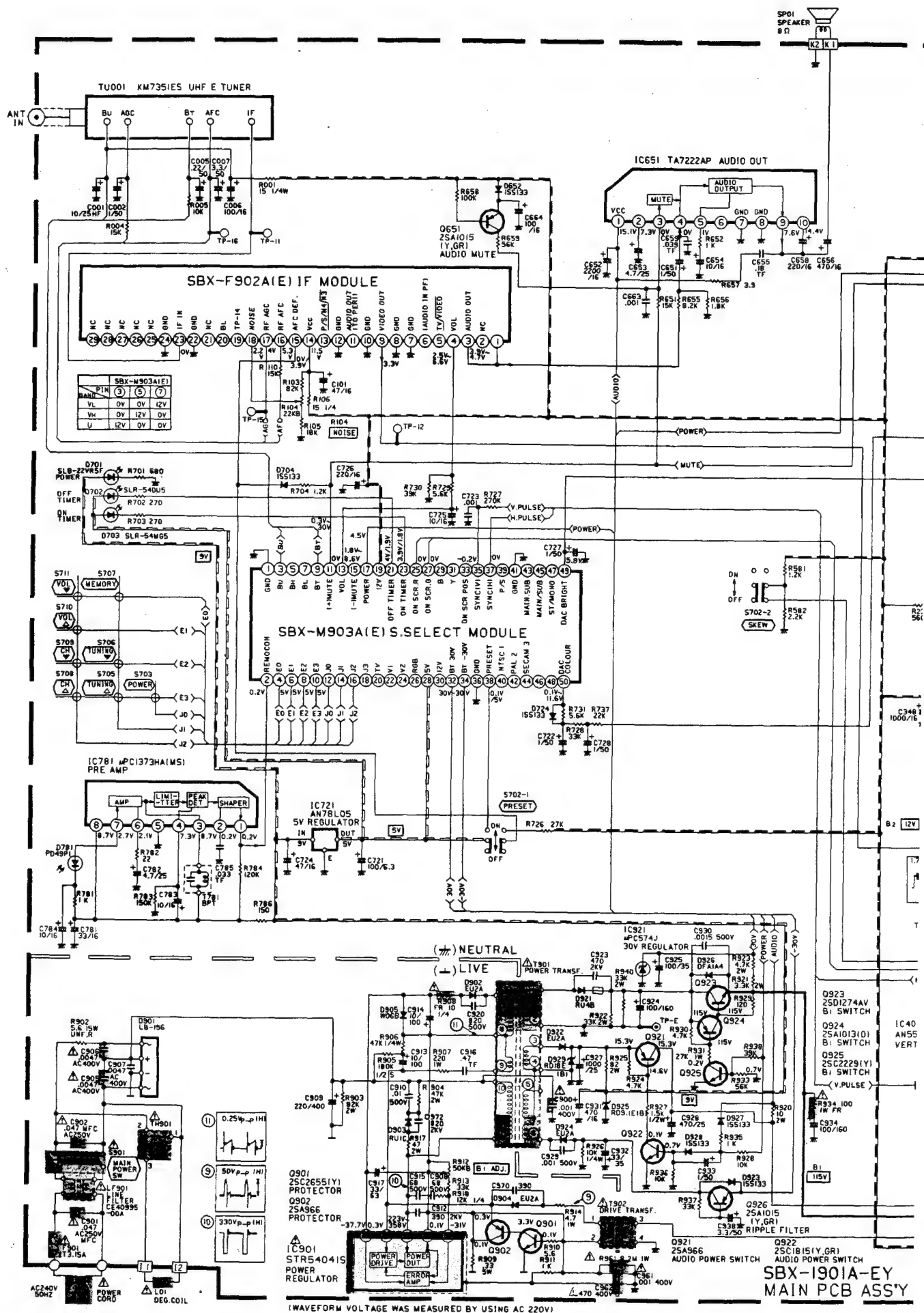
(SBX-M903A(E))

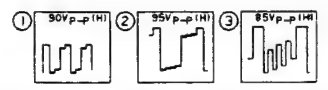
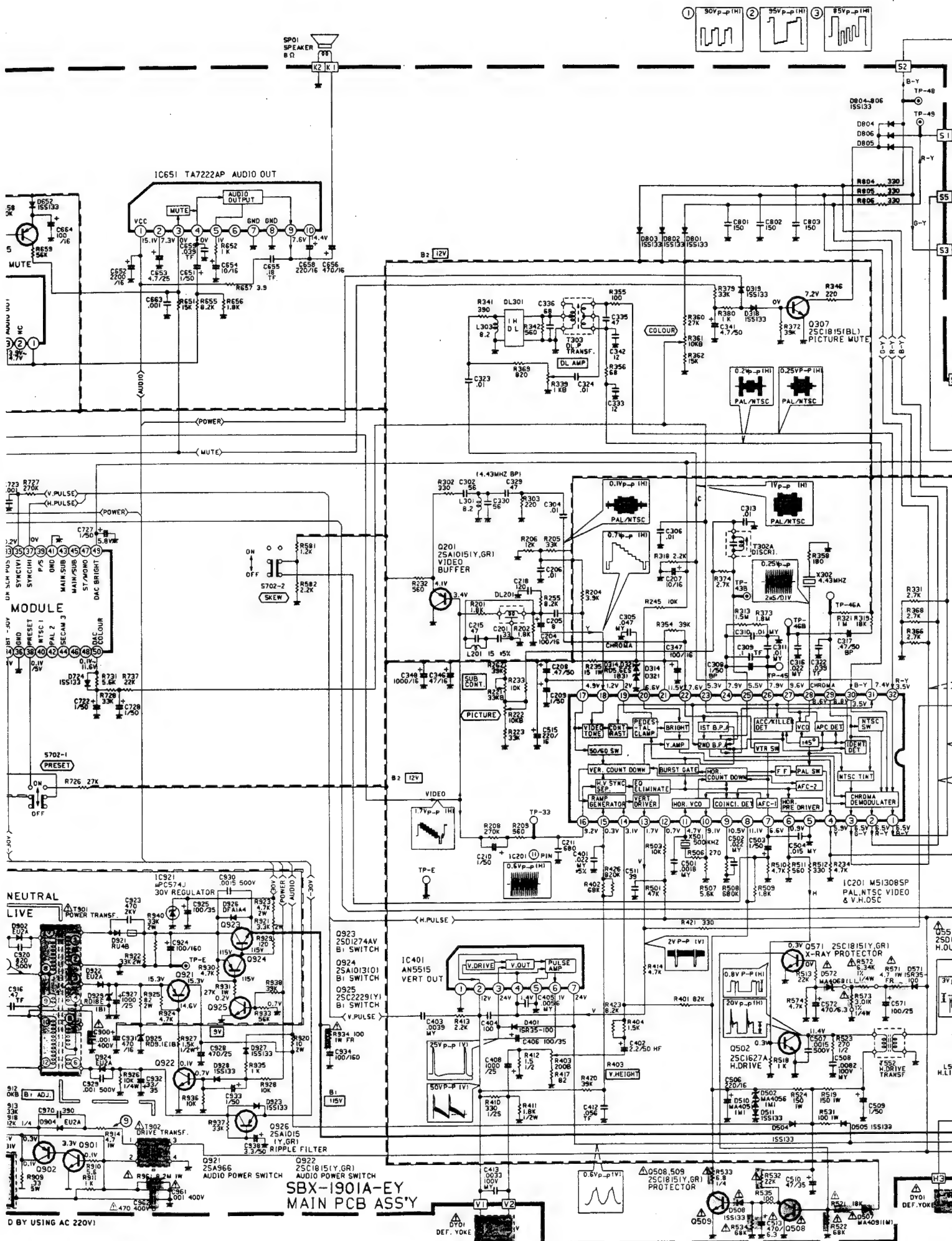


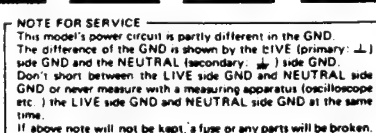
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[illegible]


MAIN SCHEMATIC DIAGRAM







CAUTION

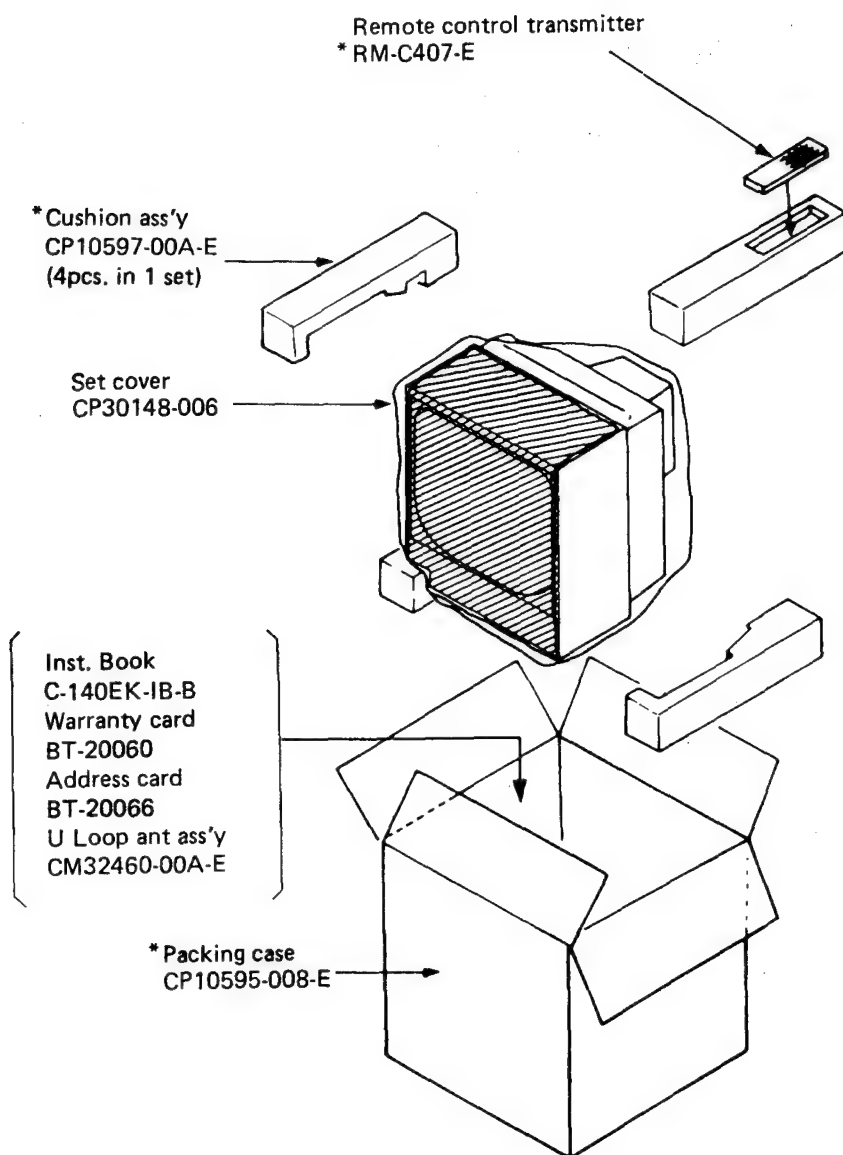
- The parts marked  are very important for the safety. When replacing these parts, be sure to use specified ones to secure the safety and performance.
- The parts which do not have the drawing in this Parts List, P.C. Board Ass'y and the Part No. columns of which are filled with lines —, will not be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in (NOTE 2) "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.
When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to (NOTE 2).

(NOTE 1) ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Aluminum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
± 1 %	± 2 %	± 5 %	± 10 %	± 20 %	± 30 %	+ 30 % - 10 %	+ 50 % - 10 %	+ 80 % - 20 %	+ 100 % - 0 %

■ PACKING DIAGRAM



JVC

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TELEVISION RECEIVER DIVISION 1106 Iwai-city, Ibaraki-prefecture, 306-06, Japan

■ INFORMATION

1. Due to reasons related to local production, certain parts of Model C-140EKY have been changed from those of the original Model C-140EK. Therefore, the Service Manual for C-140EKY primarily includes parts lists. When placing an order for service parts, please previously confirm the applicable model numbers.
2. Such repair/replacement parts of C-140EKY as picture tube, deflection yoke, PC magnet, and wedge ass'y are no longer conventional "individually supplied" parts or have become "assembly supplied" parts for this model. Therefore, when ordering repair/replacement parts, avoid making erroneous designation by confirming applicable model Nos. and parts lists.
3. Due to the above-mentioned change to "assembly supplied" parts, adjustment on convergence under the item of Service Adjustments is not required.
4. Service Adjustments for C-140EK have been partly amended as described below. Use the amended Service Adjustments to conduct adjustments regarding repairs or other servicing work.
5. On the items listed below, descriptions for C-140EKY are identical with those in the Service Manual for C-140EK (No. 5840). Therefore, refer to this Service Manual that pertains to such items.

■ REFER TO C-140EK SERVICE MANUAL

- SPECIFICATIONS
- FEATURES
- OUTLINE
- FUNCTIONS
- HOW TO REMOVE FOR SERVICE
- REMOTE CONTROL UNIT PARTSLIST
- REPLACEMENT OF THE CHIP
- * SCHEMATIC DIAGRAM (RM-C407)
(ALIGNMENT LOCATION/BASING OF TRANSISTOR AND IC)
- * PAL/SECAM (SERVICE ADJUSTMENT)

* : COUNTRY OF ORIGIN

Components identified by the * Symbol
in the Parts List are Country of Origin.

REPLACEMENT PARTS LIST

* Parts with an " Δ " mark are important for ensuring safety. When replacing these parts, be sure to use designated types so that safety and performance can be maintained.

* The module PC boards marked with ⊙ are supplied as assemblies.

MAIN REPLACEMENT PARTS LIST

SYMBOL NO.	Δ	PART NO.	PART NAME	REMARKS	*
CRT & TUNER					
L01	Δ	CE41071-001	DEGAUSSING COIL		
TU1001		KM7351ES-B01	UHF E. TUNER		
V01	Δ	370LHB22TC15J2	PICTURE TUBE/ITC	Include Deflection Yoke, PC Magnet, Wedge Assy	*
VARIABLE RESISTOR					
R1104		QVPA601-223A	V R (NOISE)	22kΩ B	
R1221		QVPA603-333A	V R (SUB, CONT)	33kΩ B	
R1222		QVAA009-CB14A	V R (PICTURE)	10kΩ B	
R1227		QVPA603-103A	V R (SUB BRIGHT)	10kΩ B	
R1230		QVAA010-CB14A	V R (BRIGHT)	10kΩ B	
R1339		QVPA601-102A	V R (DL AMP)	1kΩ B	
R1361		QVAA009-CB14A	V R (COLOR)	10kΩ B	
R1403		QVPA803-201M	V R (V. HEIGHT)	200 Ω B	
R1912		QVPA804-503M	V R (B1 ADJ.)	50kΩ B	
R3009		QVPA803-502M	V R (B CUT OFF)	5kΩ B	
R3015		QVPA803-502M	V R (R CUT OFF)	5kΩ B	
R3017		QVPA803-502M	V R (G CUT OFF)	5kΩ B	
R3021		QVPA803-201M	V R (R DRIVE)	200 Ω B	
R3023		QVPA803-201M	V R (G DRIVE)	200 Ω B	
TRANSFORMER					
T1522	Δ	CE41225-00A-KD	H. V. TRANSF.		
T1901	Δ	CE41056-00B	SW. TRANSF.		
T1902	Δ	CE41059-00B	DRIVE TRANSF.		
DIODE					
D1314		RD5.6ES (B3) -Y	ZENER DIODE		
D1321		RD5.6ES (B3) -Y	ZENER DIODE		
D1502		MA4056 (M) -Y	ZENER DIODE		
D1507	Δ	MA4091 (M) -Y	ZENER DIODE		
D1510		MA4051 (M) -Y	ZENER DIODE		
D1572	Δ	MA4068 (L) -Y	ZENER DIODE		
D1701		SLB-22VR5F	L. E. D	Power Ind.	
D1702		SLR-54DU5F	L. E. D.	Off Timer Ind.	
D1703		SLR-54MG5F	L. E. D (GRN)	On Timer Ind.	
D1781		PD49PI	PHOTO DIODE		
D1901		LB-156-LFB	DIODE BRIDGE		
D1925		RD9.1E (B)	ZENER DIODE		
D1929		RD18E (B)	ZENER DIODE		
TRANSISTOR					
Q1551	Δ	2SD1426	SI. TRANSISTOR	H. Out	
Q1901		2SC2655 (Y) -Y	SI. TRANSISTOR		
Q1902		2SA966-Y	SI. TRANSISTOR		
Q3001		2SC2371 (K-M)	SI. TRANSISTOR	B. Out	
Q3002		2SC2371 (K-M)	SI. TRANSISTOR	R. Out	
Q3004		2SC2371 (K-M)	SI. TRANSISTOR	G. Out	
IC					
IC1201		M51308SP	I. C. (M)		
IC1401		AN5515	I. C. (M)		
IC1651		TA7222AP	I. C.		
IC1721		AN78L05	I. C. (M)		
IC1781		UPC1373HA (MS)	I. C. (M)		
IC1901	Δ	STR54041S	I. C. (H)		
IC1921		UPC574J	I. C.		
OTHERS					
		SBX-F902A (E)	IF MODULE	⊙	
		SBX-M903A (E)	S SELECT MODULE	⊙	
		CM11422-00A-E	FRONT CABI ASSY	(Silver)	*
		CM11422-00D-E	FRONT CABI ASSY	(Red)	*
		CM11422-00C-E	FRONT CABI ASSY	(White)	*

SERVICE ADJUSTMENTS

■ B₁ POWER SUPPLY

Adjust the B₁ ADJ VR to obtain DC115 V between TP-91 and TP-E ($\frac{1}{100}$).

■ FOCUS

Adjust the FOCUS VR for best overall definition and picture detail at normal brightness and contrast.

■ VERTICAL HEIGHT

Adjust the V HEIGHT VR to obtain the optimum size of vertical height.

■ NOISE (RF A.G.C. Delay)

This control is set at the factory and rarely requires any adjustment. If a snowy picture appears on a medium to weak station, adjust the NOISE VR.

1. Turn NOISE VR fully clockwise (or counterclockwise), maximum noise in picture.
2. Slowly turn NOISE VR counterclockwise (or clockwise) until snow or noise in picture just disappears.

Note: Check operation on strong channels. If overloading occurs (bending, poor color, loss of color sync. etc.) make compromise adjustment.

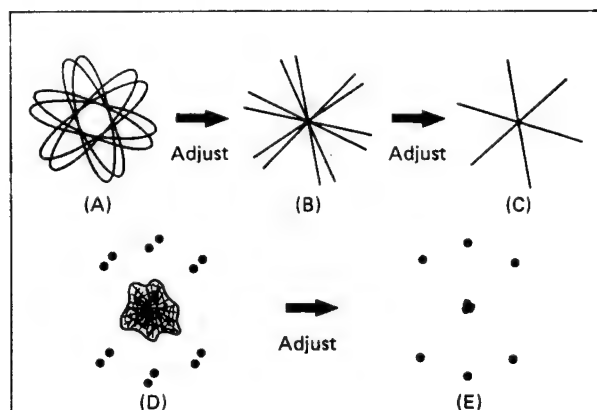
■ SUB BRIGHT AND SUB CONTRAST

1. Receive a colour bar signal.
2. Adjust the SUB BRIGHT VR and SUB CONTRAST VR until an ideal picture is obtained.

■ CHROMA CIRCUIT

● PAL

1. Set the oscilloscope at the X-Y mode, and then connect CH-1 (X-axis) to TP-49 and CH-2 (Y-axis) to TP-48 respectively.
2. Short C317 capacitor with a jumper wire and then connect pin (24) and pin (26) of IC201 with 10 k Ω resistor, you see lissajous figure (A).
- * If the figure is saturated, adjust the COLOUR VR so that it's not.
3. Adjust the DL AMP VR so that the figure becomes (B) from (A).
4. Adjust the DL P TRANSF so that the figure becomes (C) from (B).
5. Adjust repeatedly 3. and 4. more than two times.
6. Remove the jumper wire and 10 k Ω resistor from pin (24) and pin (26) of IC201.
7. Then adjust the BURST CLEANING TRANSF (T302A) so that the figure becomes (E) from (D).



■ P. IF/RF. AFC/S. IF — SIMPLIFIED ADJUSTMENT

● P. IF

1. Receive a colour bar signal.
2. Set the PRESET SWITCH to ON (AFC: OFF).
3. By rotating the CW TRANSF (T103), confirm the picture display range. Adjust to obtain optimum picture within this range.
4. Obtain optimum picture by adjusting the P. IF TRANSF (T101).

● RF. AFC

1. Receive a color bar signal.
2. Set the PRESET SWITCH to OFF (AFC: ON).
3. By rotating the AFC TRANSF (T104), confirm the picture display range. Adjust to obtain optimum picture within this range.

● S. IF

1. Tune in a local station, preferably a program with continuous audio.
2. Adjust TAKE OFF TRANSF (T601) and S. IF TRANSF (T602) so that even when sound becomes maximum, there is no distortion.

■ NOTICE FOR APPENDED "PAL/SECAM" ADJUSTMENT

For the following adjustment, adjust by referring to appended PAL/SECAM adjustment.

- SAFETY PRECAUTION
- WHITE BALANCE

SYMBOL NO.	△	PART NO.	PART NAME	REMARKS	*
OTHERS					
		CM11422-00B-E	FRONT CABI ASSY	(Black)	*
		CM43626-A01	POWER KNOB		
		CM41678-B01	PUSH KNOB	(×2)	
	△	QMP5138-200R	POWER CORD		
DL1201		CE41064-001	DELAY LINE		
DL1301		CE41305-001	1H DELAY LINE		
F1901	△	QMF51E2-3R15S	FUSE	3.15A	
LF1901	△	CE40995-00A	LINE FILTER		
R1555	△	QRZ0055-470M	F R	47 Ω 1/2W	J
R1559	△	QRH017J-561M	F R	560 Ω 1W	J
R1571	△	QRH017J-4R7M	F R	4.7 Ω 1W	J
R1908	△	QRZ0054-100M	F R	10 Ω 1/4W	J
R1934	△	QRH017J-101M	F R	100 Ω 1W	J
SP01		HSA0899-01D-KD	SPEAKER		
S1201		QSL4A13-C02	LEVER SWITCH	Service SW	
S1702		QST3221-C01	PUSH SWITCH	Preset, Skew, System	
S1703		QSP4H11-C02	PUSH SWITCH	Power	
S1705		QSP4H11-C02	PUSH SWITCH	Tuning△	
S1706		QSP4H11-C02	PUSH SWITCH	Tuning▽	
S1707		QSP4H11-C02	PUSH SWITCH	Memory	
S1708		QSP4H11-C02	PUSH SWITCH	Ch△	
S1709		QSP4H11-C02	PUSH SWITCH	Ch▽	
S1710		QSP4H11-C02	PUSH SWITCH	Vol△	
S1711		QSP4H11-C02	PUSH SWITCH	Vol▽	
S1901	△	QSP4D21-C06	PUSH SWITCH	Main Power SW	
TH1901	△	A76038-T	POSISTOR	or A76038	
X1302		CE41115-001	CRYSTAL		
X1501		CSB500F9	CERAMIC RESO		

■ CHASSIS & CABINET PARTS LIST

VIEW NO.	SYMBOL NO.	PART NO.	PART NAME	REMARKS	*
1		CM11422-00B-E	FRONT CABI ASSY	(Black)	*
1		CM11422-00D-E	FRONT CABI ASSY	(Red)	*
1		CM11422-00A-E	FRONT CABI ASSY	(Silver)	*
1		CM11422-00C-E	FRONT CABI ASSY	(White)	*
2		CM21143-002-E	DOOR	(Black) Within F. Cabi Assy	*
2		CM21143-003-E	DOOR	(Red) Within F. Cabi Assy	*
2		CM21143-001-E	DOOR	(Silver) Within F. Cabi Ass'y	*
2		CM21143-003-E	DOOR	(White) Within F. Cabi Ass'y	*
3		CM31977-C04	CONTROL SHEET	"	
4		CM43626-A01	POWER KNOB	"	
5		CM30861-034	SPRING	"	
6		CM31894-C03	INDICATOR WINDOW		
7	V01	370LHB22TC15J2	PICTURE TUBE/ITC	Include Deflection Yoke, PC Magnet, Wedge Ass'y	*
8		A48457	SPRING		
9	SP01	HSA0899-01D-KD	SPEAKER		
11	L01	CE41071-001	DEGAUSSING COIL		
12		CM32270-003	RATING LABEL		
13	T1522	CE41225-00A-KD	H. V. TRANSF		
16		CM41678-B01	PUSH KNOB	(×2)	
17		CM41677-A01	KNOB CAP		
18		CM20952-B01-V0	POWER CORD CLAMP		
19		CM10761-001-ME	REAR COVER		*
20		QMP5138-200R	POWER CORD		
21		CH30168-00B	BRAIDED ASSY		
22	TU1001	KM7351ES-B01	UHF E. TUNER		
23		CM32460-00A-E	U LOOP ANT ASSY		*
24		SBX-F902A (E)	IF MODULE	⊙	
25		SBX-M903A (E)	S SELECT MODULE	⊙	
27	S1201	QSL4A13-C02	LEVER SWITCH	Service SW	
28	Q1551	2SD1426	SI TRANSISTOR	H. Out	
29	S1702	QST3221-C01	PUSH SWITCH	Preset, Skew, System	
30	S1703	QSP4H11-C02	PUSH SWITCH	Power	
31	S1705	QSP4H11-C02	PUSH SWITCH	TuningΔ	
32	S1706	QSP4H11-C02	PUSH SWITCH	Tuning▽	
33	S1707	QSP4H11-C02	PUSH SWITCH	Memory	
34	S1708	QSP4H11-C02	PUSH SWITCH	CHΔ	
35	S1709	QSP4H11-C02	PUSH SWITCH	CH▽	
36	S1710	QSP4H11-C02	PUSH SWITCH	VolΔ	
37	S1711	QSP4H11-C02	PUSH SWITCH	Vol▽	
38	D1701	SLB-22VR5F	LED	Power Ind.	
39	D1702	SLR-54DU5F	LED	Off Timer Ind.	
40	D1703	SLR-54MG5F	LED (GREEN)	On Timer Ind.	
41	S1901	QSP4D21-C06	PUSH SWITCH	Main Power SW	
42	F1901	QMF51E2-3R15S	FUSE	3.15A	
43		GBSA4016N	TAP SCREW	(×6)	

■ REPLACEMENT PARTS LIST

- * Parts with an "Δ" mark are important for ensuring safety. When replacing these parts, be sure to use designated types to that safety and performance can be maintained.
- MAIN REPLACEMENT PARTS LIST

SYMBOL NO.	Δ	PART NO.	PART NAME	REMARKS	*
CRT & TUNER					
L01	Δ	CE41071J-001	DEG COIL		
TU1001	Δ	KM7352ES-C01J2	UHF E TUNER		
V01	Δ	370LH5221C15J2	PICTURE TUBE/ITC	Include deflection Yoke, PC Magnet, Wedge Assy	
VARIABLE RESISTOR					
R1104		CEX40358-223	VR (NOISE)	22KΩ B	
R1221		CEX40330-333	VR (SUB. CONT)	33KΩ B	
R1222		QVAA009-CB14A	VR (PICTURE)	10KΩ B	
R1227		CEX40330-103	VR (SUB. BRIGHT)	10KΩ B	
R1230		QVAA010-CB14A	VR (BRIGHT)	10KΩ B	
R1339		CEX40358-102	VR (DL AMP)	1KΩ B	
R1361		QVAA009-CB14A	VR (COLOR)	10KΩ B	
R1403		CEX40202-022	VR (V. HEIGHT)	200Ω B	
R1912		CEX40268-054	VR (B1 ADJ.)	50KΩ B	
R3009		CEX40202-053	VR (B. CUTOFF)	5KΩ B	
R3015		CEX40202-053	VR (R. CUTOFF)	5KΩ B	
R3017		CEX40202-053	VR (G. CUTOFF)	5KΩ B	
R3021		CEX40202-022	VR (R. DRIVE)	200Ω B	
R3023		CEX40202-022	VR (G. DRIVE)	200Ω B	
TRANSFORMER					
T1522	Δ	CE41225-00A	HV TRANSF.		
T1901	Δ	CE41056-00B	SW. TRANSF.		
T1902	Δ	CE41059-00B	DRIVE TRANSF.		
DIODE					
D1314		RD5.6ES (B3) -Y	ZENER DIODE		
D1321		RD5.6ES (B3) -Y	ZENER DIODE		
D1502		MA4056 (M) -Y	ZENER DIODE		
D1507	Δ	MA4091 (M) -Y	ZENER DIODE		
D1510		MA4051 (M) -Y	ZENER DIODE		
D1572	Δ	MA4068 (L) -Y	ZENER DIODE		
D1701		SLB-22VR5F	LED		
D1702		SLR-54DU5	LED		
D1703		SLR-54MG5	LED (GRN)		
D1781		PD49P1	PHOTO DIODE		
D1901		LB-156	DIODE BRIDGE		
D1925		RD9.1E (B)	ZENER DIODE		
D1929		RD18E (B)	ZENER DIODE		
TRANSISTOR					
Q1551	Δ	2SD1425	SI. TRANSISTOR	H. Out	
Q1901		2SC2655 (Y)	SI. TRANSISTOR		
Q1902		2SA966	SI. TRANSISTOR		
Q3001		2SC2371 (K-M)	SI. TRANSISTOR	B. Out	
Q3002		2SC2371 (K-M)	SI. TRANSISTOR	R. Out	
Q3004		2SC2371 (K-M)	SI. TRANSISTOR	G. Out	
IC					
IC1201		M51308SP	I. C.		
IC1401		AN5515	I. C.		
IC1651		TA7222AP	I. C.		
IC1721		AN78L05	I. C.		
IC1781		UPC1373HA (MS)	I. C. (M)		
IC1901	Δ	STR54041S	I. C.		
IC1921		UPC574J	I. C.		
OTHERS					
	Δ	SBX-F902A (E)	IF MODULE		
		SBX-M803A (E)	S. SELECT MODULE		
		CM43626-004-E	POWER KNOB		
		CM41678-003-E	PUSH KNOB		
		QMP5138-200J3	POWER CORD	(x2)	

SYMBOL NO.	Δ	PART NO.	PART NAME	REMARKS	*
OTHERS					
DL1201		CM11032-00W	FRONT CABL. ASS'Y	(Silver)	
		CM11032-00X	FRONT CABL. ASS'Y	(Black)	
		CM11032-00Y	FRONT CABL. ASS'Y	(White)	
		CM11032-00Z	FRONT CABL. ASS'Y	(Red)	
		CE41064-001	DELAY LINE		
DL1301		CE41305-001	1H DELAY LINE		
F1901	Δ	QMF5162-3R15J2	FUSE	3.15A	
LF1901	Δ	CE40995-00A	LINE FILTER		
R1555	Δ	QR20055-470M	F R	47 Ω	1/2W
R1559	Δ	QRH017J-561M	F R	560 Ω	1W
R1571	Δ	QRH017J-4R7M	F R	4.7 Ω	1W
R1908	Δ	QR20054-100M	F R	10 Ω	1/4W
R1934	Δ	QRH017J-101M	F R	100 Ω	1W
SP01		CEBSB08P-01KJ1	SPEAKER		
SI201		QSL4A13-C02	LEVER SWITCH	Service SW	
SI702		QST3221-C01	PUSH SWITCH	Preset, Skew	
SI703		QSP4H11-C02	PUSH SWITCH	Power	
SI705		QSP4H11-C02	PUSH SWITCH	Tuning	
SI706		QSP4H11-C02	PUSH SWITCH	Tuning	
SI707		QSP4H11-C02	PUSH SWITCH	Memory	
SI708		QSP4H11-C02	PUSH SWITCH	CH	
SI709		QSP4H11-C02	PUSH SWITCH	CH	
SI710		QSP4H11-C02	PUSH SWITCH	Vol	
SI711		QSP4H11-C02	PUSH SWITCH	Vol	
SI901	Δ	QSP4D21-C06	PUSH SWITCH	Main Power SW	
TH1901		A76038-T	W-PTC		
X1302	Δ	CE41115-001	CRYSTAL	or A76038	
X1501		CSB500F9	CERAMIC RESO		

SBX-F902A(E) (IF MODULE)

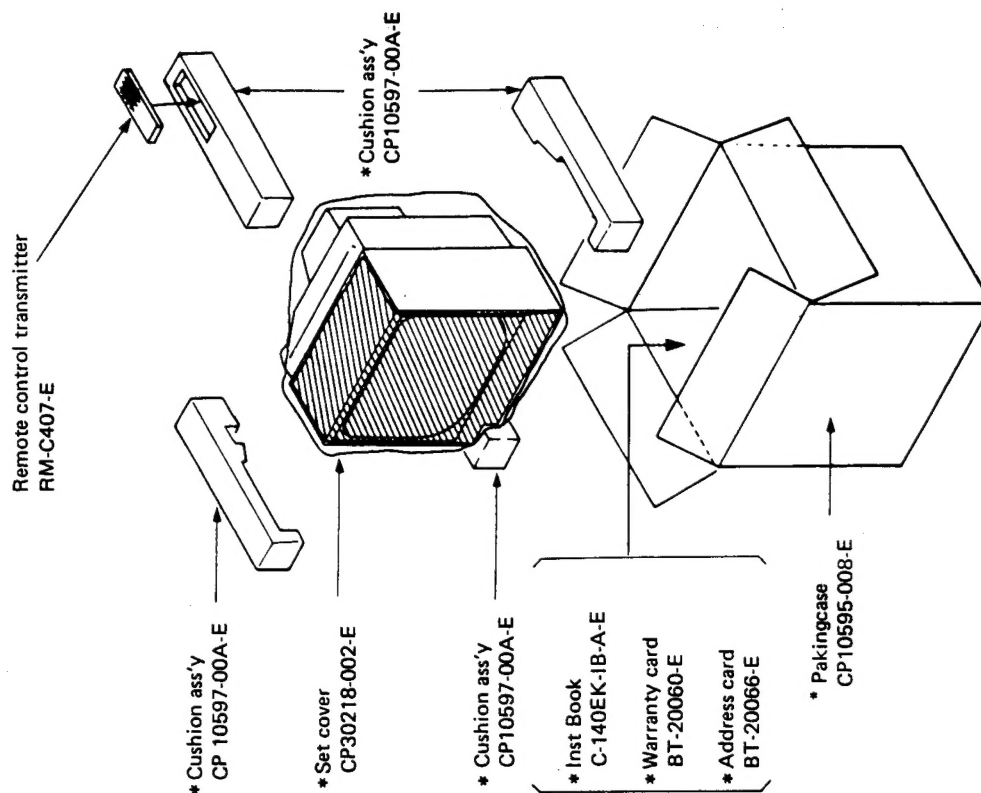
SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR C1113 C1116 C1117	QEE31VK-224M QCT81CH-101YLS QCT81CH-101YLS	TAN. CAP. CHIP C CAP. CHIP C CAP.	0.22 μ F 35V K 100pF 50V J 100pF 50V J
TRANSFORMER T1101 T1103 T1104 T1601 T1602	CE40117-309 CE40119-301 CE40123-600 CE40736-202 CE40737-201	1ST PIF TRANSF CW TRANSF AFC TRANSF TAKE TRANSF SIF TRANSF	
COIL L1101 L1102 L1104 L1107	CE41066-R56YL CE40582-2R2 CE40344-100YL CE40344-220YL	CHIP INDUCTOR PEAKING COIL CHIP INDUCTOR CHIP INDUCTOR	2.2 μ H
DIODE D1101	MA3100 (M) -X	CHIP ZENER DIODE	
TRANSISTOR Q1101 Q1103 Q1104 Q1107 Q1108 Q1111	2SC1360 2SA1022 (B, C) -W 2SC2712 (N, G) -X 2SC2712 (Y, G) -X 2SC2712 (Y, G) -X 2SC1959 (Y)	SI. TRANSISTOR CHIP TRANSISTOR CHIP TRANSISTOR CHIP TRANSISTOR CHIP TRANSISTOR SI. TRANSISTOR	
IC IC1101	M51346AP	I. C.	
OTHERS CF1101 CF1601 SF1101	A76138 A75111-C CE40454-301	C. TRAP CERAMIC FILTER SAW FILTER	

SYMBOL NO.	PART NO.	PART NAME	REMARKS
OTHERS R1555 R1559 R1571 R1908 R1934	QR20055-470M QRH017J-561M QRH017J-4R7M QR20054-100M QRH017J-101M	F R F R F R F R F R	47 Ω 1/2W J 560 Ω 1W J 4.7 Ω 1W J 10 Ω 1/4W J 100 Ω 1W J
S1201 S1702 S1703 S1705 S1706	QSL4A13-C02 QST3221-C01 QSP4H11-C02 QSP4H11-C02 QSP4H11-C02	LEVER SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH	Service SW Preset, Skew Power Tuning Δ Tuning ∇
S1707 S1708 S1709 S1710 S1711	QSP4H11-C02 QSP4H11-C02 QSP4H11-C02 QSP4H11-C02 QSP4H11-C02	PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH	Memory CH Δ CH ∇ Vol Δ Vol ∇
S1901 TU1001 X1302 X1501	QSP4D21-C06 A76038-T KM7352ES-G01J2 CE41115-001 CSB500F9	PUSH SWITCH W-PTC UHF E. TUNER CRYSTAL CERAMIC RESO	Main Power SW or A76038

SBX-3901A-EY (CRT SOCKET PB ASS'Y)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
VARIABLE R R3009 R3015 R3017 R3021 R3023	CEX40202-053 CEX40202-053 CEX40202-053 CEX40202-022 CEX40202-022	VR (B. CUTOFF) VR (R. CUTOFF) VR (G. CUTOFF) VR (R. DRIVE) VR (G. DRIVE)	5k Ω B 5k Ω B 5k Ω B 200 Ω B 200 Ω B
RESISTOR R3024 R3025 R3026 R3035	QRG019J-153S QRG019J-153S QRG019J-153S QRG029J-473A	OM R OM R OM R OM R	15k Ω 1W J 15k Ω 1W J 15k Ω 1W J 47k Ω 2W J
CAPACITOR C3007	QC29016-103A	C CAP.	0.01 μ FAC400V P
COIL L3001	QQL043K-221	PEAKING COIL	220 μ H
TRANSISTOR Q3001 Q3002 Q3003 Q3004 Q3005	2SC2371 (K-M) 2SC2371 (K-M) 2SC1815 (Y) -Y 2SC2371 (K-M) 2SC1815 (Y) -Y	SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR SI. TRANSISTOR	B. Out R. Out G. Out
OTHERS	CE40228-00E	CRT SOCKET	

■ PACKING DIAGRAM



SBX-M903A(E) (STATION SELECT MODULE)

SYMBOL NO.	PART NO.	PART NAME	REMARKS
CAPACITOR C1012 C1013 C1014 C1015 C1016	NCB41HK-104PY	CHIP CAP.	0.1 μ F 50V K
	NCB41HK-104PY	CHIP CAP.	0.1 μ F 50V K
	NEA11HM-335R2	CHIP AL E CAP.	3.3 μ F 50V M
	NEA10JM-226R2	CHIP AL E CAP.	22 μ F 6.3V M
	NEA11HM-474R2	CHIP AL E CAP.	0.47 μ F 50V M
	NEA11HM-335R2	CHIP AL E CAP.	3.3 μ F 50V M
COIL L1001 L1002	CE40344-1R5YL	CHIP INDUCTOR	
	CE40344-390YL	CHIP INDUCTOR	
DIODE D1001 D1002 D1003 D1004 D1009 D1010 D1011 D1012 D1014 D1015 D1016 D1017	ISS193-X	CHIP DIODE	
	ISS193-X	CHIP DIODE	
	ISS193-X	CHIP DIODE	
	ISS193-X	CHIP DIODE	
	ISS193-W	CHIP DIODE	
	ISS193-W	CHIP DIODE	
	ISS193-W	CHIP DIODE	
	ISS193-X	CHIP DIODE	
	ISS193-X	CHIP DIODE	
	ISS193-X	CHIP DIODE	
	ISS193-W	CHIP DIODE	
	ISS193-W	CHIP DIODE	
	ISS184-X	CHIP DIODE	
	ISS184-X	CHIP DIODE	
	ISS184-X	CHIP DIODE	
TRANSISTOR Q1004 Q1005 Q1006 Q1007 Q1011 Q1012 Q1013 Q1014	2SA1162 (Y, G) -W	CHIP. TRANSISTOR	
	2SA1162 (Y, G) -W	CHIP. TRANSISTOR	
	2SC2712 (Y, G) -X	CHIP. TRANSISTOR	
	2SC2712 (Y, G) -X	CHIP. TRANSISTOR	
	2SC2712 (Y, G) -X	CHIP. TRANSISTOR	
	2SA1162 (Y, G) -W	CHIP. TRANSISTOR	
	2SC2712 (Y, G) -W	CHIP. TRANSISTOR	
	2SC2712 (Y, G) -X	CHIP. TRANSISTOR	
IC IC1001 IC1002 IC1003 IC1004	M58659FP	I. C. (M)	
	M50435-893FP	I. C. (M)	
	MB88301APP-W	I. C. (M)	
	UPD4049UBG-W	I. C. (M)	or TC4049BF-W
OTHERS X1001	CRE500	CERAMIC RESO	

22-0E1-1E

